



The Case of the Sneaky Cat Burglar

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

Something is wrong in Whisker Hollow. The Top Cat is gone from her warm spot in the big red barn! A sneaky cat took her, and only you can sniff out who.

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the Cat Burglar is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	CAT MOVE	SECRET SKILL	CAT TYPE	FUR COLOR	WEAK SPOT
Pumpkin	Sharp Claws	Night Vision	Girl Cat	Gray Fur	Loud Noise
Pepper	Fast Dash	Purr Hypnosis	Girl Cat	Gray Fur	Cucumber
Felix	Super Pounce	Night Vision	Girl Cat	Orange Fur	Water
Smokey	Silent Sneak	Night Vision	Boy Cat	Black Fur	Cucumber
Pickles	High Jump	Night Vision	Boy Cat	Black Fur	Water
Cinder	High Jump	Rooftop Climb	Girl Cat	Orange Fur	Cucumber
Jasper	Fast Dash	Whisker Sense	Boy Cat	Orange Fur	Water
Socks	Sharp Claws	Night Vision	Boy Cat	Gray Fur	Loud Noise
Shadow	High Jump	Whisker Sense	Girl Cat	Gray Fur	Loud Noise
Oreo	Silent Sneak	Tail Balance	Girl Cat	Gray Fur	Water
Tabby	High Jump	Rooftop Climb	Girl Cat	Gray Fur	Loud Noise
Marmalade	Fast Dash	Night Vision	Girl Cat	Orange Fur	Water
Marble	Fast Dash	Purr Hypnosis	Boy Cat	Orange Fur	Water
Nibbles	Sharp Claws	Tail Balance	Girl Cat	Black Fur	Loud Noise
Patches	Sharp Claws	Tail Balance	Girl Cat	Orange Fur	Loud Noise
Snowball	Sharp Claws	Whisker Sense	Girl Cat	Black Fur	Loud Noise
Whiskers	Silent Sneak	Night Vision	Girl Cat	Black Fur	Loud Noise
Boots	Super Pounce	Whisker Sense	Boy Cat	Black Fur	Cucumber
Ginger	Sharp Claws	Whisker Sense	Boy Cat	Gray Fur	Water
Mittens	Super Pounce	Night Vision	Girl Cat	Gray Fur	Loud Noise
Tiger	Super Pounce	Purr Hypnosis	Girl Cat	Gray Fur	Loud Noise

CLUE 1
Place value (tens & ones)

Solve each problem, then write its letter in every clue box that shows the same number.

T																T
28	96	95	24	49	23	23	52	49	82	43	52	82	82	63	28	

									T			
43	23	49	90	84	26	63	63	47	28	63	20	22

What number has 2 tens and 8 ones?

→

T

What number has 9 tens and 6 ones?

→

H

What number has 9 tens and 5 ones?

→

E

What number has 2 tens and 4 ones?

→

V

What number has 4 tens and 9 ones?

→

I

What number has 2 tens and 3 ones?

→

L

What number has 5 tens and 2 ones?

→

A

What number has 8 tens and 2 ones?

→

N

What number has 4 tens and 3 ones?

→

C

What number has 6 tens and 3 ones?

→

O

What number has 9 tens and 0 ones?

→

M

What number has 8 tens and 4 ones?

→

B

What number has 2 tens and 6 ones?

→

R

What number has 4 tens and 7 ones?

→

F

What number has 2 tens and 0 ones?

→

P

What number has 2 tens and 2 ones?

→

S

Scratch space:

CLUE 2
Addition

Solve each problem, then write its letter in every clue box that shows the same number.

A										A		A						A	
92	61	49	47	25	87	52	52	52	92	61	92	26	49	84	88	81	92	47	

			A		A	
84	33	25	92	61	92	72

$63 + 29 = \boxed{} \rightarrow \boxed{\text{A}}$

$26 + 35 = \boxed{} \rightarrow \boxed{\text{W}}$

$24 + 25 = \boxed{} \rightarrow \boxed{\text{I}}$

$26 + 21 = \boxed{} \rightarrow \boxed{\text{T}}$

$14 + 11 = \boxed{} \rightarrow \boxed{\text{N}}$

$43 + 44 = \boxed{} \rightarrow \boxed{\text{E}}$

$28 + 24 = \boxed{} \rightarrow \boxed{\text{S}}$

$9 + 17 = \boxed{} \rightarrow \boxed{\text{G}}$

$57 + 27 = \boxed{} \rightarrow \boxed{\text{R}}$

$35 + 53 = \boxed{} \rightarrow \boxed{\text{L}}$

$54 + 27 = \boxed{} \rightarrow \boxed{\text{C}}$

$12 + 21 = \boxed{} \rightarrow \boxed{\text{U}}$

$51 + 21 = \boxed{} \rightarrow \boxed{\text{Y}}$

Scratch space:

CLUE 3
Subtraction

Solve each problem, then write its letter in every clue box that shows the same number.

T																	
30	66	59	35	21	82	58	37	88	41	82	24	30	59	37		82	

41	18	21	37	66	18	58	38

37 - 7 = → T	90 - 24 = → H	74 - 15 = → E
51 - 16 = → G	37 - 16 = → U	87 - 5 = → A
73 - 15 = → R	47 - 10 = → D	96 - 8 = → B
80 - 39 = → L	53 - 29 = → S	45 - 27 = → O
74 - 36 = → N		

Scratch space:

CLUE 4

Skip counting

Solve each problem, then write its letter in every clue box that shows the same number.

G																
24	65	55	50	16	20	65	60	55	28	16	22	20	100	18	22	100
						G										
130	140	33	65	20	24											

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **G**

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 → **R**

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **A**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, __, 60, 70 → **Y**

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **F**

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 → **U**

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **W**

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **S**

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **O**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **N**

Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, __, 21, 24 → **D**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **T**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **H**

Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39

→

E

Scratch space:

CLUE 5**Missing addends - the last clue**

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

$6 + \underline{\quad} = 16$

$2 + \underline{\quad} = 7$

$1 + \underline{\quad} = 8$

$5 + \underline{\quad} = 6$

$10 + \underline{\quad} = 16$

$4 + \underline{\quad} = 7$

$4 + \underline{\quad} = 12$

$6 + \underline{\quad} = 15$

$2 + \underline{\quad} = 13$

$8 + \underline{\quad} = 10$

$6 + \underline{\quad} = 10$

Step 2 - cross out the sentence with each answer:

1. The villain sneaks without a sound, then climbs up the rooftops.
2. The villain swipes with sharp claws, then feels with twitching whiskers.
3. The villain leaps over the tall wall, then balances along the ledge.
4. The villain pounces from the shadows, then climbs up the rooftops.
5. The villain pounces from the shadows, then hums a sleepy purr.
6. The villain leaps over the tall wall, then hums a sleepy purr.
7. The villain swipes with sharp claws, then sees in the dark.
8. The villain swipes with sharp claws, then climbs up the rooftops.
9. The villain sneaks without a sound, then feels with twitching whiskers.
10. The villain leaps over the tall wall, then feels with twitching whiskers.
11. The villain dashes down the alley, then climbs up the rooftops.
12. The villain pounces from the shadows, then sees in the dark.

Answer Key

The Case of the Sneaky Cat Burglar

Culprit: Mittens

Super Pounce · Night Vision · Girl Cat · Gray Fur · Loud Noise

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value (tens & ones)): "THE VILLAIN CANNOT CLIMB ROOFTOPS"

What number has 2 tens and 8 ones? = 28 (T) · What number has 9 tens and 6 ones? = 96 (H) · What number has 9 tens and 5 ones? = 95 (E) · What number has 2 tens and 4 ones? = 24 (V) · What number has 4 tens and 9 ones? = 49 (I) · What number has 2 tens and 3 ones? = 23 (L) · What number has 5 tens and 2 ones? = 52 (A) · What number has 8 tens and 2 ones? = 82 (N) · What number has 4 tens and 3 ones? = 43 (C) · What number has 6 tens and 3 ones? = 63 (O) · What number has 9 tens and 0 ones? = 90 (M) · What number has 8 tens and 4 ones? = 84 (B) · What number has 2 tens and 6 ones? = 26 (R) · What number has 4 tens and 7 ones? = 47 (F) · What number has 2 tens and 0 ones? = 20 (P) · What number has 2 tens and 2 ones? = 22 (S)

Clue 2 (Addition): "A WITNESS SAW A GIRL CAT RUN AWAY"

$63 + 29 = 92$ (A) · $26 + 35 = 61$ (W) · $24 + 25 = 49$ (I) · $26 + 21 = 47$ (T) · $14 + 11 = 25$ (N) · $43 + 44 = 87$ (E) · $28 + 24 = 52$ (S) · $9 + 17 = 26$ (G) · $57 + 27 = 84$ (R) · $35 + 53 = 88$ (L) · $54 + 27 = 81$ (C) · $12 + 21 = 33$ (U) · $51 + 21 = 72$ (Y)

Clue 3 (Subtraction): "THE GUARD BLASTED A LOUD HORN"

$37 - 7 = 30$ (T) · $90 - 24 = 66$ (H) · $74 - 15 = 59$ (E) · $51 - 16 = 35$ (G) · $37 - 16 = 21$ (U) · $87 - 5 = 82$ (A) · $73 - 15 = 58$ (R) · $47 - 10 = 37$ (D) · $96 - 8 = 88$ (B) · $80 - 39 = 41$ (L) · $53 - 29 = 24$ (S) · $45 - 27 = 18$ (O) · $74 - 36 = 38$ (N)

Clue 4 (Skip counting): "GRAY FUR WAS FOUND ON THE RUG"

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (G) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (R) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (A) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (Y) · Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (F) · Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 = 20 (U) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (W) · Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (S) · Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (O) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (N) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (D) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (T) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (H) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (E)

Clue 5 (Missing addends): surviving statement is box 12 → Mittens

$6 + \underline{\quad} = 16 = 10$ · $2 + \underline{\quad} = 7 = 5$ · $1 + \underline{\quad} = 8 = 7$ · $5 + \underline{\quad} = 6 = 1$ · $10 + \underline{\quad} = 16 = 6$ · $4 + \underline{\quad} = 7 = 3$ · $4 + \underline{\quad} = 12 = 8$ · $6 + \underline{\quad} = 15 = 9$ · $2 + \underline{\quad} = 13 = 11$ · $8 + \underline{\quad} = 10 = 2$ · $6 + \underline{\quad} = 10 = 4$